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Question 1: Place a checkmark (✓) or an X next to the following statements

1. Artificial intelligence can learn new things slowly. ()
2. Sensors help robots interact with their environment. ()
3. Sensors do not play a role in robot movement or sensing their surrounding environment. ()
4. Scratch provides a very wide range of programming ideas. ()
5. The Start command is used to stop project execution. ()

Question 2: Choose the correct answer from the following options:

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- 1- Artificial intelligence focuses on performing a specific task.**
a. Narrow b. General c. Super d. Precise
- 2- The first step in the operation of a sensor is**
a. Transmission b. Display c. Sensing d.
Transformation
- 3- The challenges facing robotics technology include**
a. Increased reliance on paper documents
b. Increased reliance on smartphones
c. Security, employment, and ethics
d. Increased reliance on traditional machinery
- 4- Scratch uses a visual interface that relies on**
a. Difficult commands b. Images c. Blocks d.
Drawings
- 5- The position of an object on the stage is determined by the value**
of.....



a. Horizontal and vertical axes
object

b. Click on the

c. Stage

d. Discretion

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Question 1: Place a checkmark (√) or an X next to the following statements

- 1- Python cannot be used to create applications and websites. ()
- 2- Light sensors are useful in underwater environments. ()
- 3- Robots are currently limited to factories.
- 4- Scratch is a difficult-to-use educational tool. ()
- 5- Artificial intelligence can help doctors diagnose diseases. ()

Question 2: Choose the correct answer from the

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- 1- Artificial intelligence can easily solve problems that are difficult for humans to solve, and discover new things we never imagined before.
a- Narrow b- General c- Super d- Precise
- 2- One of the common applications of sensors is the use of infrared in...
a- Smartphones b- Remote control devices
c- Vacuum cleaners d- 3D scanning
- 3- Robots help with dangerous tasks such as...
a- Transportation



- b- Handling heavy weights and hazardous chemicals
- c- Watering gardens and parks
- d- Cleaning the house

4- To implement the project, click on the symbol...

- a- 
- b- 
- c- 
- d- 

5- A library for analyzing and processing data...

- a- NumPy
- b- Pandas
- c- Machine Learning
- d- Python

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Question 1: Place a checkmark (✓) or an X next to the

- 1. For artificial intelligence to become intelligent, it needs relatively small amounts of information. ()
- 2. Light sensors help cars determine the distance to other vehicles. ()
- 3. Robots use communication tools to interact with users or other robots. ()
- 4. In Scratch, the result of a task or project appears in the command group area. ()
- 5. Python is a free and open-source programming language, meaning no one can develop it. ()

Question 2: Choose the correct answer from the following

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- 1- Like Siri or Alexa, artificial intelligence is used to understand and execute your commands.....
 - A. Personal Assistant
 - B. Interpreter
 - C. Smart Shopping
 - D. Natural Language
- 2- Python is a language that translates code line by line.



- A. Open Source

C. Easy to Use
- B. Interpreted

D. Difficult to Use
- 3- In production lines, robots can perform repetitive tasks accurately and without delay. This leads to:
- A. Increased efficiency and productivity

B. Decreased efficiency and productivity

C. Lack of product development

D. Slower production
- 4- In Scratch, a new background is inserted into the project through the programming area.....
- A. Stage

B. Block Area

C. Choose a Backdrop

D. Sprite
- 5- If the movement is done quickly, the following command is used from Control Panel:
- A. Wait

B. Repeat

C. Forever

D. Else

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Q 1: Place a checkmark (✓) or an X next to the following
1. Machine learning enables artificial intelligence to learn from mistakes and improve performance.

()
2. Vacuum cleaner robots use sensors to avoid collisions with obstacles.

()
3. Robots can perform many tasks with high precision.

()
4. The frame is the basic part that supports all the components of a robot.

()
5. X-coordinates represent the horizontal movement of an object on a stage.

()
6. The default position of an object on a stage is (80,100).

()



7. Python libraries provide ready-made solutions to many problems.
8. There is only one type of artificial intelligence. ()
9. Python is considered one of the most difficult programming () languages.
10. Scratch programming helps develop creative thinking and problem-solving skills. ()

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Q 2: Choose the correct answer from the options in

(Python - Script Area - Machine Learning - Robotics - Sensors)

- 1-.....A technology that enables artificial intelligence to learn from mistakes to improve its performance.
- 2-A programming language widely used in machine learning and web development.
- 3-A device that can be programmed to perform a set of tasks automatically.
- 4-Are devices that sense changes in the surrounding environment.
- 5- Thearea in the Scratch programming language where blocks are assembled to form the snippet code.

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B: choose	م	Answer false	
Narrow	1	x	1



Sensing	2	✓	2
Security, employment, and ethics	3	x	3
. blocks	4	✓	4
Horizontal and vertical axes	5	x	5

B: choose	م	A:True or false	م
Super	1	x	1
Remote control devices	2	✓	2
Handling heavy weights and hazardous chemicals	3	x Sample	3
 flag	4	x	4
Pandas	5	Sample ✓	5

B: choose	م	A:True or false	م
Personal Assistant	1	✓	1
.Interpreted	2	✓	2
Increased efficiency and productivity	3	✓	3
Choose a Backdrop	4	x Sample	4
Wait		x	
B: choose	م	A:True or false	م
Machine Learning	1	x 6 ✓	1
Python	2	✓ 7 ✓	2
Robotics	3	x 8 ✓	3
Sensors	4	x 9 ✓	4
Script Area	5	✓ 10 ✓	5